**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE:\_\_\_\_\_\_\_\_ PER. \_\_\_\_\_\_**

**LIGHT AND PLANT GROWTH**

***Use the picture on the back to answer the questions***

1. The worksheet shows an experimental set up at the bottom of the picture and the graph for that experiment at the top. Looking at the graph, what is the independent variable?

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2. What is the dependent variable? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

3. What are the controls in this experiment (things that are exactly the same). \_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. What range of light intensity (candelas) resulted in the most rapid increase in photosynthesis

(look at the graph)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

5. What would you expect to happen to the rate of photosynthesis if the plants were exposed to a

light intensity of 3000 candelas? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. What happens to the rate of photosynthesis after 1000 candelas of light intenstiy? \_\_\_\_\_\_\_\_

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7. What is the chemical equation (balanced) for photosynthesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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8. Which plants showed the highest rate of photosynthesis? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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9. Where in a cell does photosynthesis take place? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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10. Looking at the graph and picture of this experiment, what conclusion could you draw about

the rate of photosynthesis & light intensity? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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